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1 Mobile data management: Mimic: raw activity shipping for file synchronization in



mobile file systems

Tae-Young Chang, Aravind Velayutham, Raghupathy Sivakumar

window

June 2004 Proceedings of the 2nd international conference on Mobile systems, applications, and services MobiSys '04

Publisher: ACM Press

Full text available: pdf(334.54 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we consider the problem of file synchronization when a mobile host shares files with a backbone file server in a network file system. Several *diff* schemes have been proposed to improve upon the transfer overheads of conventional file synchronization approaches which use full file transfer. These schemes compute the binary *diff* of the new file with respect to the old copy at the server and transfer the computed *diff* to the server for file-synchronization. Howev ...

Keywords: file synchronization, mobile file system, raw activity shipping

² ARIES/CSA: a method for database recovery in client-server architectures



③ (

C. Mohan, Inderpal Narang

May 1994 ACM SIGMOD Record , Proceedings of the 1994 ACM SIGMOD international conference on Management of data SIGMOD '94, Volume 23 Issue 2

Publisher: ACM Press

Full text available: pdf(1.33 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>

This paper presents an algorithm, called ARIES/CSA (Algorithm for Recovery and Isolation Exploiting Semantics for Client-Server Architectures), for performing recovery correctly in client-server (CS) architectures. In CS, the server manages the disk version of the database. The clients, after obtaining database pages from the server, cache them in their buffer pools. Clients perform their updates on the cached pages and produce log records. The log records are buffered loca ...

3 Lessons from Wall Street: case studies in configuration, tuning, and distribution



Dennis Shasha

June 1997 ACM SIGMOD Record , Proceedings of the 1997 ACM SIGMOD international conference on Management of data SIGMOD '97, Volume 26 Issue 2

Publisher: ACM Press

Full text available: pdf(593.61 KB)

Additional Information: full citation, abstract, references, citings, index terms

Consider a setting in which Database speed and reliability can make the difference between prosperity and ruin. Money for information systems is no object. Data must be

accessible from many points on the globe with subsecond response. The financial industry is exactly such an environment. This tutorial presents case studies in configuration, tuning, and distribution drawn from financ ...

4 Run-time security evaluation: can we afford it?

Cristina Serban, Bruce McMillin

September 1996 Proceedings of the 1996 workshop on New security paradigms

Publisher: ACM Press

Full text available: pdf(506.19 KB) Additional Information: full citation, references, citings, index terms

Modeling methodology b: Distributed simulation and manufacturing: synchronization and management of shared state in HLA-based distributed simulation

Boon Ping Gan, Malcolm Yoke Hean Low, Junhu Wei, Xiaoguang Wang, Stephen John Turner, Wentong Cai

December 2003 Proceedings of the 35th conference on Winter simulation: driving innovation

Publisher: Winter Simulation Conference

Full text available: pdf(345.71 KB) Additional Information: full citation, abstract, references

The HLA Runtime Infrastructure can support a conservative simulation protocol for its time management service. However, the performance of conservative simulation protocols is very much dependent on lookahead that one can extract out of a simulation model. Also the most conservative value has to be taken in order to ensure the causality constraint. In this paper, we propose two algorithms, namely pullRO and pushRO, that allow one to replace some of the timestamp order (TSO) messages (possibly ...

⁶ Sequential consistency versus linearizability



Hagit Attiya, Jennifer L. Welch

May 1994 ACM Transactions on Computer Systems (TOCS), Volume 12 Issue 2

Publisher: ACM Press

Full text available: pdf(2.15 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms, review

The power of two well-known consistency conditions for shared-memory multiprocessors, sequential consistency and linearizability, is compared. The cost measure studied is the worst-case response time in distributed implementations of virtual shared memory supporting one of the two conditions. Three types of shared-memory objects are considered: read/write objects, FIFO queues, and stacks. If clocks are only approximately synchronized (or do not exist), then ...

Evaluation of compiler generated parallel programs on three multicomputers
 Roland Rühl



August 1992 Proceedings of the 6th international conference on Supercomputing

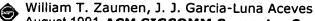
Publisher: ACM Press

Full text available: pdf(1.13 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

Distributed memory parallel processors (DMPPs) have no hardware support for a global address space. However, conventional programs written in a sequential imperative language such as Fortran typically manipulate few, large arrays. The Oxygen compiler, developed as part of the K2 project, translates conventional Fortran code, augmented with code and data distribution directives, into C programs including SEND/RECEIVE communication primitives. The compiler directives, which are either supplie ...

8 Dynamics of distributed shortest-path routing algorithms



August 1991 ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Communications architecture & protocols SIGCOMM '91,

Volume 21 Issue 4

Publisher: ACM Press

Full text available: pdf(1.08 MB) Additional Information: full citation, references, citings, index terms

9 Sequential consistency versus linearizability (extended abstract)



Hagit Attiya, Jennifer L. Welch

June 1991 Proceedings of the third annual ACM symposium on Parallel algorithms and architectures

Publisher: ACM Press

Full text available: pdf(1.09 MB)

Additional Information: full citation, references, citings, index terms

10 Bandwidth requirement and state consistency in three multiplayer game architectures



Joseph D. Pellegrino, Constantinos Dovrolis

May 2003 Proceedings of the 2nd workshop on Network and system support for games NetGames '03

Publisher: ACM Press

Full text available: pdf(163.47 KB) Additional Information: full citation, abstract, references, citings

Multiplayer games become increasingly popular, mostly because they involve interaction among humans. Typically, multiplayer games are organized based on a Client-Server (CS) or a Peer-to-Peer (PP) architecture. In CS, players exchange periodic updates through a central server that is also responsible for resolving any state inconsistencies. In PP, each player communicates with every other player while state inconsistencies are resolved through a distributed agreement protocol. In this paper, we f ...

11 Correct memory operation of cache-based multiprocessors





C. Scheurich, M. Dubois

June 1987 Proceedings of the 14th annual international symposium on Computer architecture

Publisher: ACM Press

Full text available: pdf(1.05 MB)

Additional Information: full citation, abstract, references, citings, index terms

This paper shows that cache coherence protocols can implement indivisible synchronization primitives reliably and can also enforce sequential consistency. Sequential consistency provides a commonly accepted model of behavior of multiprocessors. We derive a simple set of conditions needed to enforce sequential consistency in multiprocessors. These conditions are easily applied to prove the correctness of existing cache coherence protocols that rely on one or multiple broadcast buses to enfor ...

12 A path-finding algorithm for loop-free routing



February 1997 IEEE/ACM Transactions on Networking (TON), Volume 5 Issue 1

Publisher: IEEE Press

Full text available: pdf(414.16 KB) Additional Information: full citation, references, citings, index terms

Keywords: internetworking, loop freedom, routing, shortest path

13 Game infrastructure: Zoned federation of game servers: a peer-to-peer approach to





scalable multi-player online games

Takuji Iimura, Hiroaki Hazeyama, Youki Kadobayashi

August 2004 Proceedings of 3rd ACM SIGCOMM workshop on Network and system support for games NetGames '04

Publisher: ACM Press

Full text available: pdf(60.83 KB) Additional Information: full citation, abstract, references, citings, index terms

Today's Multi-player Online Games (MOGs) are challenged by infrastructure requirements, because of their server-centric nature. Peer-to-peer networks are an interesting alternative, if they can implement the set of functions that are traditionally performed by centralized authoritative servers. In this paper, we propose a zoned federation model to adapt MOG to peer-to-peer networks. In this model, zoning layer is inserted between the game program and peer-to-peer networks. We intro ...

14 The K2 distributed memory parallel processor: architecture, compiler, and operating



system

M. Annaratone, M. Fillo, M. Halbherr, R. Rühl, P. Steiner, M. Viredaz

August 1991 Proceedings of the 1991 ACM/IEEE conference on Supercomputing

Publisher: ACM Press

Full text available: pdf(1.13 MB)

Additional Information: full citation, references, citings, index terms

15 Solving partial differential equations in a data-driven multiprocessor environment



③

J. L. Gaudiot, C. M. Lin, M. Hosseiniyar

May 1988 ACM SIGARCH Computer Architecture News, Proceedings of the 15th Annual International Symposium on Computer architecture ISCA '88, Volume 16 Issue 2

Publisher: IEEE Computer Society Press, ACM Press

Full text available: pdf(856.94 KB)

Additional Information: full citation, abstract, references, citings, index terms

Partial differential equations can be found in a host of engineering and scientific problems. The emergence of new parallel architectures has spurred research in the definition of parallel PDE solvers. Concurrently, highly programmable systems such as data-flow architectures have been proposed for the exploitation of large scale parallelism. The implementation of some Partial Differential Equation solvers (such as the Jacobi method) on a tagged token data-flow graph is demonstrated here. As ...

16 Network gaming: Supporting P2P gaming when players have heterogeneous



۱

resources

Aaron St. John, Brian Neil Levine

June 2005 Proceedings of the international workshop on Network and operating systems support for digital audio and video NOSSDAV '05

Publisher: ACM Press

Full text available: pdf(259.90 KB) Additional Information: full citation, abstract, references, index terms

We present Ghost, a peer-to-peer game architecture that manages game consistency across a set of players with heterogeneous network resources. Ghost dynamically creates responsive sub-games based on the delay profiles of players. Ghost allows each user to set the quality of game they are willing to play and creates the maximum-sized game that satisfies the users' requirements. Ghost extends our earlier Asynchronous Synchronization (AS) protocol, which provides cheat-free playout for peer-to-peer ...

Keywords: games, peer to peer

17 Long-lived and adaptive atomic snapshot and immediate snapshot (extended



Yehuda Afek, Gideon Stupp, Dan Touitou

July 2000 Proceedings of the nineteenth annual ACM symposium on Principles of distributed computing

Publisher: ACM Press

Full text available: pdf(1.07 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u>

Long-lived and adaptive to point contention implementations of snapshot and immediate snapshot objects in the read/write shared-memory model are presented. In [2] we presented adaptive algorithms for mutual exclusion, collect and snapshot. However, the collect and snapshot algorithms were adaptive only when the number of local primitive operations that a process performs are ignored, i.e., not counted. The number of primitive local steps (operations that do not access the shared memory) in ...

EDIFACT for business computers: has it succeeded?	
Airi Salminen	
March 1995 StandardView, Volume 3 Issue 1	
Publisher: ACM Press	
Full text available: pdf(154.80 KB) Additional Information: full citation, references, citings, index terms, review	
19 ARIES: a transaction recovery method supporting fine-granularity locking and partial	
rollbacks using write-ahead logging	
C. Mohan, Don Haderle, Bruce Lindsay, Hamid Pirahesh, Peter Schwarz March 1992 ACM Transactions on Database Systems (TODS), Volume 17 Issue 1	
Publisher: ACM Press	
Full text available: pdf(5.23 MB) Additional Information: full citation, abstract, references, citings, index terms, review	
DB2TM, IMS, and TandemTM systems. ARIES is applicable not only to database management systems but also to persistent object-oriented languages, recoverable file systems and transaction-based operating systems. ARIES has been implemented, to varying degrees, in IBM's OS/2TM Extended Edition Database Manager, DB2, Workstation Data Save Facility/VM, Starburst and QuickSilver, and in the University of Wisconsin's EXODUS and Gamma d	
Keywords : buffer management, latching, locking, space management, write-ahead logging	
20 Research sessions: consistency and availability: Relaxed currency and consistency:	
how to say "good enough" in SQL	
Hongfei Guo, Per-Ake Larson, Raghu Ramakrishnan, Jonathan Goldstein	
June 2004 Proceedings of the 2004 ACM SIGMOD international conference on Management of data	
Publisher: ACM Press	
Full text available: pdf(606.81 KB) Additional Information: full citation, abstract, references, citings	
Despite the widespread and growing use of asynchronous copies to improve scalability, performance and availability, this practice still lacks a firm semantic foundation. Applications are written with some understanding of which queries can use data that is not entirely current and which copies are "good enough"; however, there are neither explicit requirements nor guarantees. We propose to make this knowledge available to the DBMS through explicit currency and consistency (C&C) constraints in qu	
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Document authoring, markup and manipulation 2: Towards active web clients

Vincent Quint, Iréne Vatton

November 2005 Proceedings of the 2005 ACM symposium on Document engineering DocEng '05

Publisher: ACM Press

Full text available: pdf(382.45 KB) Additional Information: full citation, abstract, references, index terms

Recent developments of document technologies have strongly impacted the evolution of Web clients over the last fifteen years, but all Web clients have not taken the same advantage of this advance. In particular, mainstream tools have put the emphasis on accessing existing documents to the detriment of a more cooperative usage of the Web. However, in the early days, Web users were able to go beyond browsing and to get more actively involved. This paper presents the main features needed to make We ...

Keywords: XML documents, authoring, compound documents, style languages, web user agent

2 Astrolabe: A robust and scalable technology for distributed system monitoring,

management, and data mining

Robbert Van Renesse, Kenneth P. Birman, Werner Vogels

May 2003 ACM Transactions on Computer Systems (TOCS), Volume 21 Issue 2

Publisher: ACM Press

Full text available: 1 pdf(341.62 KB)

Additional Information: full citation, abstract, references, citings, index

Scalable management and self-organizational capabilities are emerging as central requirements for a generation of large-scale, highly dynamic, distributed applications. We have developed an entirely new distributed information management system called Astrolabe. Astrolabe collects large-scale system state, permitting rapid updates and providing on-the-fly attribute aggregation. This latter capability permits an application to locate a resource, and also offers a scalable way to track sys ...

Keywords: Aggregation, epidemic protocols, failure detection, gossip, membership, publish-subscribe, scalability

3 Network text editor (NTE): A scalable shared text editor for the MBone

Mark Handley, Jon Crowcroft

October 1997 ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM '97 conference on Applications, technologies,

architectures, and protocols for computer communication SIGCOMM

'97, Volume 27 Issue 4

Publisher: ACM Press

Full text available: pdf(1.69 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

IP Multicast, Lightweight Sessions and Application Level Framing provide guidelines by which multimedia conferencing tools can be designed, but they do not provide specific solutions. In this paper, we use these design principles to guide the design of a multicast based shared editor, and examine the consequences of taking a loose consistency approach to achieve good performance in the face of network failures and losses.

4 Business process modeling/reengineering: The process of process reengineering: integration of discrete event simulation models with framework-based business applications

Peter Lendermann, Nirupam Julka, Lai Peng Chan, Boon Ping Gan

December 2003 Proceedings of the 35th conference on Winter simulation: driving innovation

Publisher: Winter Simulation Conference

Full text available: pdf(536.42 KB) Additional Information: full citation, abstract, references

Simulation models and business application software as they are used for decision support in enterprise management are both representations of an enterprise's actual operations. This paper describes a unified simulation and application framework where it is possible to represent the entire performance process along a supply chain in a unified business model, improve its performance with discrete event simulation technology, and then generate and implement the corresponding business applicatio ...

5 Special system-oriented section: the best of SIGMOD '94: Sleepers and workaholics: caching strategies in mobile environments (extended version)

Daniel Barbará, Tomasz Imieliński

October 1995 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 4 Issue 4

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(1.73 MB)

Additional Information: full citation, abstract, references, citings

In the mobile wireless computing environment of the future, a large number of users, equipped with low-powered palmtop machines, will query databases over wireless communication channels. Palmtop-based units will often be disconnected for prolonged periods of time, due to battery power saving measures; palmtops also will frequently relocate between different cells, and will connect to different data servers at different times. Caching of frequently accessed data items will be an important techni ...

Keywords: caching, data management, information services, wireless

⁶ Using cache memory to reduce processor-memory traffic

James R. Goodman

August 1998 25 years of the international symposia on Computer architecture (selected papers)

Publisher: ACM Press

Full text available: pdf(1.08 MB)

Additional Information: full citation, references, index terms

7 Visualization for program understanding: A system for graph-based visualization of

the evolution of software

Christian Collberg, Stephen Kobourov, Jasvir Nagra, Jacob Pitts, Kevin Wampler June 2003 **Proceedings of the 2003 ACM symposium on Software visualization**

Publisher: ACM Press

u	50 - 7 9	1 450
	Full text available: pdf(3.80 MB) Additional Information: full citation, abstract, references, citings	
	We describe GEVOL, a system that visualizes the evolution of software using a novel graph drawing technique for visualization of large graphs with a temporal component. GEVOL extracts information about a Java program stored within a CVS version control system and displays it using a temporal graph visualizer. This information can be used by programmers to understand the evolution of a legacy program: Why is the program structured the way it is? Which programmers were responsibl	
8	Workflow management based on process model repositories	
	Volker Gruhn, Monika Schneider April 1998 Proceedings of the 20th international conference on Software engineering	
	Publisher: IEEE Computer Society	
	Full text available: pdf(1.12 MB) Additional Information: full citation, references, index terms Publisher Site	
9	Out	
_	Queue Focus: Voice Over IP: You Don't Know Jack About VoIP Phil Sherburne, Cary Fitzgerald	
③	September 2004 Queue, Volume 2 Issue 6	
	Publisher: ACM Press Full text available: pdf(1.02 MB) Additional Information: full citation, index terms	
	html(36.36 KB)	
10	VSPLUS: A high-level multi-user extension library for interactive VRML worlds	
(2)	Yoshiaki Araki, Sony Music Entertainment (Japan) Inc. February 1998 Proceedings of the third symposium on Virtual reality modeling language	
	Publisher: ACM Press Full text available: pdf(1.26 MB) Additional Information: full citation, references, citings, index terms	
11 �	Groupware for special groups II: "Breaking the code", moving between private and public work in collaborative software development Cleidson R. B. de Souza, David Redmiles, Paul Dourish November 2003 Proceedings of the 2003 international ACM SIGGROUP conference on Supporting group work	
	Publisher: ACM Press	
	Full text available: pdf(279.65 KB) Additional Information: full citation, abstract, references, citings, index terms	
	Software development is typically cooperative endeavor where a group of engineers need to work together to achieve a common, coordinated result. As a cooperative effort, it is especially difficult because of the many interdependencies amongst the artifacts created during the process. This has lead software engineers to create tools, such as configuration management tools, that isolate developers from the effects of each other's work. In so doing, these tools create a distinction between private	
	Keywords : collaborative software development, private work, public work, qualitative studies	

12 <u>Structured hypertext with domain semantics</u>
Weigang Wang, Roy Rada
October 1998 **ACM Transactions on Information Systems (TOIS)**, Volume 16 Issue 4

Publisher: ACM Press

Full text available: pdf(593.99 KB) Additional Information: full citation, abstract, references, citings, index terms

One important facet of current hypertext research involves using knowledge-based techniques to develop and maintain document structures. A semantic net is one such technique. However, most semantic-net-based hypertext systems leave the linking consistency of the net to individual users. Users without guidance may accidentally introduce structural and relational inconsistencies in the semantic nets. The relational inconsistency hinders the creation of domain information models. The structura ...

Keywords: graph theory, hypertext models, hypertext structures

13 Concurrency control in collaborative hypertext systems

Uffe Kock Wiil, John J. Leggett

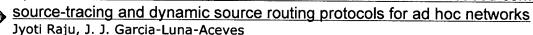
December 1993 Proceedings of the fifth ACM conference on Hypertext

Publisher: ACM Press

Full text available: pdf(1.05 MB) Additional Information: full citation, references, citings, index terms

Keywords: collaborative work, concurrency control, distributed hypertext systems, events, extensibility, hyperbases, open architectures, supporting technologies, transaction management, user-controlled locking, version control

14 Special issue on wireless extensions to the internet: Scenario-based comparison of



October 2001 ACM SIGCOMM Computer Communication Review, Volume 31 Issue 5

Publisher: ACM Press

Full text available: pdf(1.00 MB)

Additional Information: full citation, abstract, references

We present source tracing as a new viable approach to routing in ad hoc networks in which routers communicate the second-to-last hop and distance in preferred paths to destinations. We introduce a table-driven protocol (BEST) in which routers maintain routing information for all destinations, and an on-demand routing protocol (DST) in which routers maintain routing information for only those destinations to whom they need to forward data. Simulation experiments are used to compare these proto ...

Keywords: On-demand routing, ad hoc networks, wireless routing

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1 ARIES: a transaction recovery method supporting fine-granularity locking and partial



rollbacks using write-ahead logging

C. Mohan, Don Haderle, Bruce Lindsay, Hamid Pirahesh, Peter Schwarz March 1992 **ACM Transactions on Database Systems (TODS)**, Volume 17 Issue 1

Publisher: ACM Press

Full text available: pdf(5.23 MB)

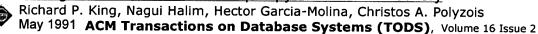
Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms, review

DB2TM, IMS, and TandemTM systems. ARIES is applicable not only to database management systems but also to persistent object-oriented languages, recoverable file systems and transaction-based operating systems. ARIES has been implemented, to varying degrees, in IBM's OS/2TM Extended Edition Database Manager, DB2, Workstation Data Save Facility/VM, Starburst and QuickSilver, and in the University of Wisconsin's

EXODUS and Gamma d ...

Keywords: buffer management, latching, locking, space management, write-ahead logging

Management of a remote backup copy for disaster recovery



Publisher: ACM Press

Full text available: pdf(2.48 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms, review

A remote backup database system tracks the state of a primary system, taking over transaction processing when disaster hits the primary site. The primary and backup sites are physically isolated so that failures at one site are unlikely to propogate to the other. For correctness, the execution schedule at the backup must be equivalent to that at the primary. When the primary and backup sites contain a single processor, it is easy to achieve this property. However, this is harder to do when ...

Keywords: database initialization, hot spare, hot standby, remote backup

3 High speed on-line backup when using logical log operations

David B. Lomet

May 2000 ACM SIGMOD Record, Proceedings of the 2000 ACM SIGMOD international conference on Management of data SIGMOD '00, Volume 29 Issue 2

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index

Full text available: pdf(220.69 KB)

Publisher: ACM Press

Full text available: pdf(817.29 KB)

terms

Media recovery protects a database from failures of the stable medium by maintaining an extra copy of the database, called the backup, and a media recovery log. When a failure occurs, the database is "restored" from the backup, and the media recovery log is used to roll forward the database to the desired time, usually the current time. Backup must be both fast and "on-line", i.e. concurrent with on-going update activity. Conventional online backup sequentially copies ...

4 Industrial sessions: beyond relational tables: Coordinating backup/recovery and data consistency between database and file systems Suparna Bhattacharya, C. Mohan, Karen W. Brannon, Inderpal Narang, Hui-I Hsiao, Mahadevan Subramanian June 2002 Proceedings of the 2002 ACM SIGMOD international conference on Management of data SIGMOD '02 Publisher: ACM Press Full text available: pdf(1.44 MB) Additional Information: full citation, abstract, references, index terms Managing a combined store consisting of database data and file data in a robust and consistent manner is a challenge for database systems and content management systems. In such a hybrid system, images, videos, engineering drawings, etc. are stored as files on a file server while meta-data referencing/indexing such files is created and stored in a relational database to take advantage of efficient search. In this paper we describe solutions for two potentially problematic aspects of such a data ... Keywords: DB2, content management, database backup, database recovery, datalinks ⁵ Disaster recovery techniques for database systems Manhoi Choy, Hong Va Leong, Man Hon Wong November 2000 Communications of the ACM **Publisher: ACM Press** Full text available: pdf(412.04 KB) Additional Information: full citation, references, index terms Evaluation of remote backup algorithms for transaction-processing systems Christos A. Polyzois, Héctor García-Molina September 1994 ACM Transactions on Database Systems (TODS), Volume 19 Issue 3 Publisher: ACM Press Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, index Full text available: pdf(1.87 MB) terms, review A remote backup is a copy of a primary database maintained at a geographically separate location and is used to increase data availability. Remote backup systems are typically log-based and can be classified into 2-safe and 1-safe, depending on whether transactions commit at both sites simultaneously or first commit at the primary and are later propagated to the backup. We have built an experimental database system on which we evaluated the performance of the epoch and the dependency recons ... **Keywords**: disaster recovery, hot spare, hot standby, remote backup 7 The IBM data warehouse architecture Charles Bontempo, George Zagelow September 1998 Communications of the ACM, Volume 41 Issue 9

Additional Information: full citation, references, citings, index terms,

<u>review</u>

8	Evaluation of remote backup algorithms for transaction processing systems Christos A. Polyzois, Hector Garcia-Molina	
•	June 1992 ACM SIGMOD Record, Proceedings of the 1992 ACM SIGMOD international conference on Management of data SIGMOD '92, Volume 21 Issue 2	
	Publisher: ACM Press Full text available: pdf(1.21 MB) Additional Information: full citation, abstract, references, index terms	
	A remote backup is a copy of a primary database maintained at a geographically separate location and is used to increase data availability. Remote backup systems are typically log-based and can be classified into 2-safe and 1-safe, depending on whether transactions commit at both sites simultaneously or they first commit at the primary and are later propagated to the backup. We have built an experimental database system on which we evaluated the performance of the epoch algorithm, a 1-safe	
9	Dealing with partial failures in multiple processor primary-backup systems Sharad Mehrotra, Kexiang Hu, Simon Kaplan January 1997 Proceedings of the sixth international conference on Information and knowledge management Publisher: ACM Press	
	Full text available: pdf(1.46 MB) Additional Information: full citation, references, citings, index terms	
	Keywords : disaster protection, primary-backup system, replication, transaction processing	
10	Highly available systems for database applications Won Kim March 1984 ACM Computing Surveys (CSUR), Volume 16 Issue 1	
	Publisher: ACM Press	
	Full text available: pdf(2.43 MB) Additional Information: full citation, abstract, references, citings, index terms, review	
	As users entrust more and more of their applications to computer systems, the need for systems that are continuously operational (24 hours per day) has become even greater. This paper presents a survey and analysis of representative architectures and techniques that have been developed for constructing highly available systems for database applications. It then proposes a design of a distributed software subsystem that can serve as a unified framework for constructing database applica	
11	Computing the performability of layered distributed systems with a management	
•	architecture Olivia Das, C. Murray Woodside January 2004 ACM SIGSOFT Software Engineering Notes, Proceedings of the 4th international workshop on Software and performance WOSP '04, Volume 29 Issue 1	
	Publisher: ACM Press Full text available:	
	This paper analyzes the performability of client-server applications that use a separate fault management architecture for monitoring and controlling of the status of the application software and hardware. The analysis considers the impact of the management components and connections, and their reliability, on performability. The approach combines minpath algorithms, Layered Queueing analysis and non-coherent fault tree analysis techniques for efficient computation of expected reward rate of the	
	Keywords : distributed systems, layered queueing networks, non-coherent fault trees, performability, system fault-tolerance	

12	Experimental testbeds and data: The changing usage of a mature campus-wide
	wireless network
	Tristan Henderson, David Kotz, Ilya Abyzov
	September 2004 Proceedings of the 10th annual international conference on Mobile

computing and networking Publisher: ACM Press

Full text available: pdf(625.48 KB)

Additional Information: full citation, abstract, references, citings, index terms

Wireless Local Area Networks (WLANs) are now commonplace on many academic and corporate campuses. As "Wi-Fi" technology becomes ubiquitous, it is increasingly important to understand trends in the usage of these networks. This paper analyzes an extensive network trace from a mature 802.11 WLAN, including more than 550 access points and 7000 users over seventeen weeks. We employ several measurement techniques, including syslogs, telephone records, SNMP polling and tcpdump packet sniffing. This is ...

Keywords: 802.11, VoIP, WLAN, Wi-Fi, telephony, voice, wireless network

13 Understanding fault-tolerant distributed systems

Flavin Cristian

February 1991 Communications of the ACM, Volume 34 Issue 2

Publisher: ACM Press

Full text available: pdf(6.17 MB)

Additional Information: full citation, references, citings, index terms,

<u>review</u>

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log-based and can be classified into 2-safe and 1-safe, depending on whether transactions commit at both sites simultaneously or they first commit at the primary and are later propagated to the backup. We have built an experimental database system on which we evaluated the performance of the epoch algorithm, a 1-safe ...

High speed on-line backup when using logical log operations

David B. Lomet

May 2000 ACM SIGMOD Record, Proceedings of the 2000 ACM SIGMOD international conference on Management of data SIGMOD '00, Volume 29 Issue 2

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(220.69 KB) terms

Media recovery protects a database from failures of the stable medium by maintaining an extra copy of the database, called the backup, and a media recovery log. When a failure occurs, the database is "restored" from the backup, and the media recovery log is used to roll forward the database to the desired time, usually the current time. Backup must be

both fast and "on-line", i.e. concurrent with on-going update activity. Conventional online backup sequentially copies ...

Evaluation of remote backup algorithms for transaction-processing systems



Christos A. Polyzois, Héctor García-Molina

September 1994 ACM Transactions on Database Systems (TODS), Volume 19 Issue 3

Publisher: ACM Press

Full text available: pdf(1.87 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

A remote backup is a copy of a primary database maintained at a geographically separate location and is used to increase data availability. Remote backup systems are typically log-based and can be classified into 2-safe and 1-safe, depending on whether transactions commit at both sites simultaneously or first commit at the primary and are later propagated to the backup. We have built an experimental database system on which we evaluated the performance of the epoch and the dependency recons ...

Keywords: disaster recovery, hot spare, hot standby, remote backup

5 Industrial sessions: beyond relational tables: Coordinating backup/recovery and data



consistency between database and file systems

Suparna Bhattacharya, C. Mohan, Karen W. Brannon, Inderpal Narang, Hui-I Hsiao, Mahadevan Subramanian

June 2002 Proceedings of the 2002 ACM SIGMOD international conference on Management of data SIGMOD '02

Publisher: ACM Press

Full text available: pdf(1.44 MB)

Additional Information: full citation, abstract, references, index terms

Managing a combined store consisting of database data and file data in a robust and consistent manner is a challenge for database systems and content management systems. In such a hybrid system, images, videos, engineering drawings, etc. are stored as files on a file server while meta-data referencing/indexing such files is created and stored in a relational database to take advantage of efficient search. In this paper we describe solutions for two potentially problematic aspects of such a data ...

Keywords: DB2, content management, database backup, database recovery, datalinks

6 <u>Disaster recovery techniques for database systems</u>

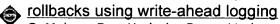


Manhoi Choy, Hong Va Leong, Man Hon Wong
November 2000 Communications of the ACM

Publisher: ACM Press

Full text available: pdf(412.04 KB) Additional Information: full citation, references, index terms

7 ARIES: a transaction recovery method supporting fine-granularity locking and partial



C. Mohan, Don Haderle, Bruce Lindsay, Hamid Pirahesh, Peter Schwarz March 1992 ACM Transactions on Database Systems (TODS), Volume 17 Issue 1

Publisher: ACM Press

Full text available: pdf(5.23 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms, review

DB2TM, IMS, and TandemTM systems. ARIES is applicable not only to database management systems but also to persistent object-oriented languages, recoverable file systems and transaction-based operating systems. ARIES has been implemented, to varying degrees, in IBM's OS/2TM Extended Edition Database Manager, DB2, Workstation Data Save Facility/VM, Starburst and QuickSilver, and in the University of Wisconsin's

EXODUS and Gamma d ...

Keywords: buffer management, latching, locking, space management, write-ahead logging

8 Computing the performability of layered distributed systems with a management



<u>architecture</u>

Olivia Das, C. Murray Woodside

January 2004 ACM SIGSOFT Software Engineering Notes, Proceedings of the 4th international workshop on Software and performance WOSP '04, Volume 29 Issue 1

Publisher: ACM Press

Full text available: pdf(942.77 KB) Additional Information: full citation, abstract, references

This paper analyzes the performability of client-server applications that use a separate fault management architecture for monitoring and controlling of the status of the application software and hardware. The analysis considers the impact of the management components and connections, and their reliability, on performability. The approach combines minpath algorithms, Layered Queueing analysis and non-coherent fault tree analysis techniques for efficient computation of expected reward rate of the ...

Keywords: distributed systems, layered queueing networks, non-coherent fault trees, performability, system fault-tolerance

9 Highly available systems for database applications





Won Kim

March 1984 ACM Computing Surveys (CSUR), Volume 16 Issue 1

Publisher: ACM Press

Full text available: pdf(2.43 MB)

Additional Information: full citation, abstract, references, citings, index

terms, review

As users entrust more and more of their applications to computer systems, the need for systems that are continuously operational (24 hours per day) has become even greater. This paper presents a survey and analysis of representative architectures and techniques that have been developed for constructing highly available systems for database applications. It then proposes a design of a distributed software subsystem that can serve as a unified framework for constructing database applica ...

10 Mobile and Cooperative Systems: Information sharing and security in dynamic





coalitions

Charles E. Phillips, T.C. Ting, Steven A. Demurjian

June 2002 Proceedings of the seventh ACM symposium on Access control models and technologies

Publisher: ACM Press

Full text available: pdf(1.68 MB)

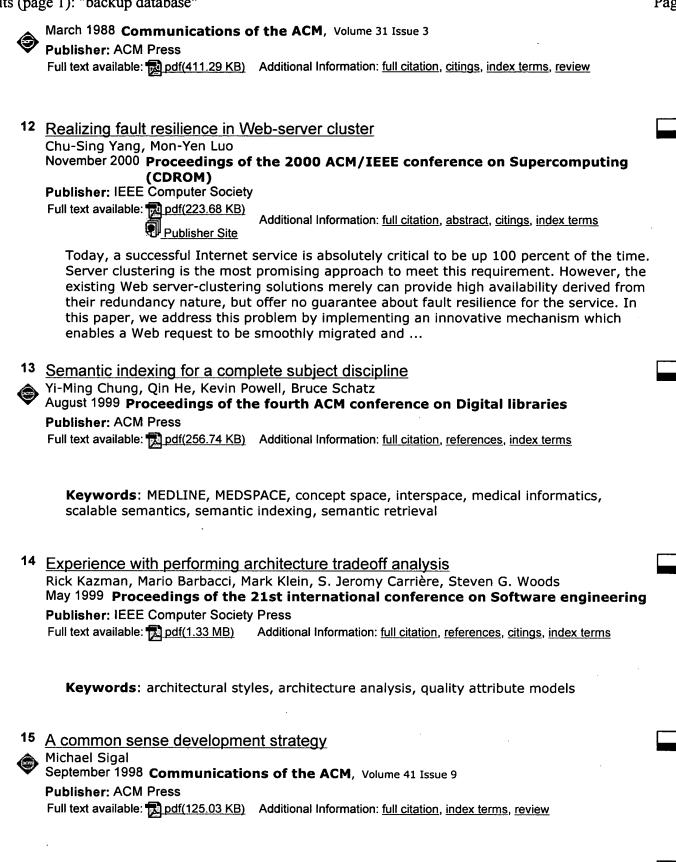
Additional Information: full citation, abstract, references, citings, index

Today, information sharing is critical to almost every institution. There is no more critical need for information sharing than during an international crisis, when international coalitions dynamically form. In the event of a crisis, whether it is humanitarian relief, natural disaster, combat operations, or terrorist incidents, international coalitions have an immediate need for information. These coalitions are formed with international cooperation, where each participating country offers whate ...

Keywords: access control, distributed systems, dynamic coalitions, information security

11 The search for performance in scientific processors: the Turing Award lecture John Cocke





16 The IBM data warehouse architecture Charles Bontempo, George Zagelow

September 1998 Communications of the ACM, Volume 41 Issue 9

Publisher: ACM Press

Additional Information: full citation, references, citings, index terms, Full text available: pdf(817.29 KB) review

s (pa	ge 1): "backup database"	Pag
17	Dealing with partial failures in multiple processor primary-backup systems Sharad Mehrotra, Kexiang Hu, Simon Kaplan January 1997 Proceedings of the sixth international conference on Information and knowledge management Publisher: ACM Press Full text available: pdf(1.46 MB) Additional Information: full citation, references, citings, index terms	
	Keywords : disaster protection, primary-backup system, replication, transaction processing	
18	Exotica: a project on advanced transaction management and workflow systems C. Mohan, D. Agrawal, G. Alonso, A. El Abbadi, R. Guenthoer, M. Kamath August 1995 ACM SIGOIS Bulletin, Volume 16 Issue 1 Publisher: ACM Press Full text available: pdf(781.89 KB) Additional Information: full citation, abstract, citings, index terms	
	This paper is an overview of the Exotica project, currently in progress at the IBM Almaden Research Center. The project aims at exploring several research areas from advanced transaction management concepts to client/server architectures and mobile computing within the context of business processes and workflow management. The ultimate goal is to incorporate these ideas into IBM's products and prototypes. The project involves IBM groups in Almaden (U.S.A.), Hursley (U.K.), Boeblingen (Germany),	
19	Experimental testbeds and data: The changing usage of a mature campus-wide wireless network Tristan Henderson, David Kotz, Ilya Abyzov September 2004 Proceedings of the 10th annual international conference on Mobile computing and networking Publisher: ACM Press	
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